

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P528439

Luminaire Tested: **GALN-SA3C-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11411 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

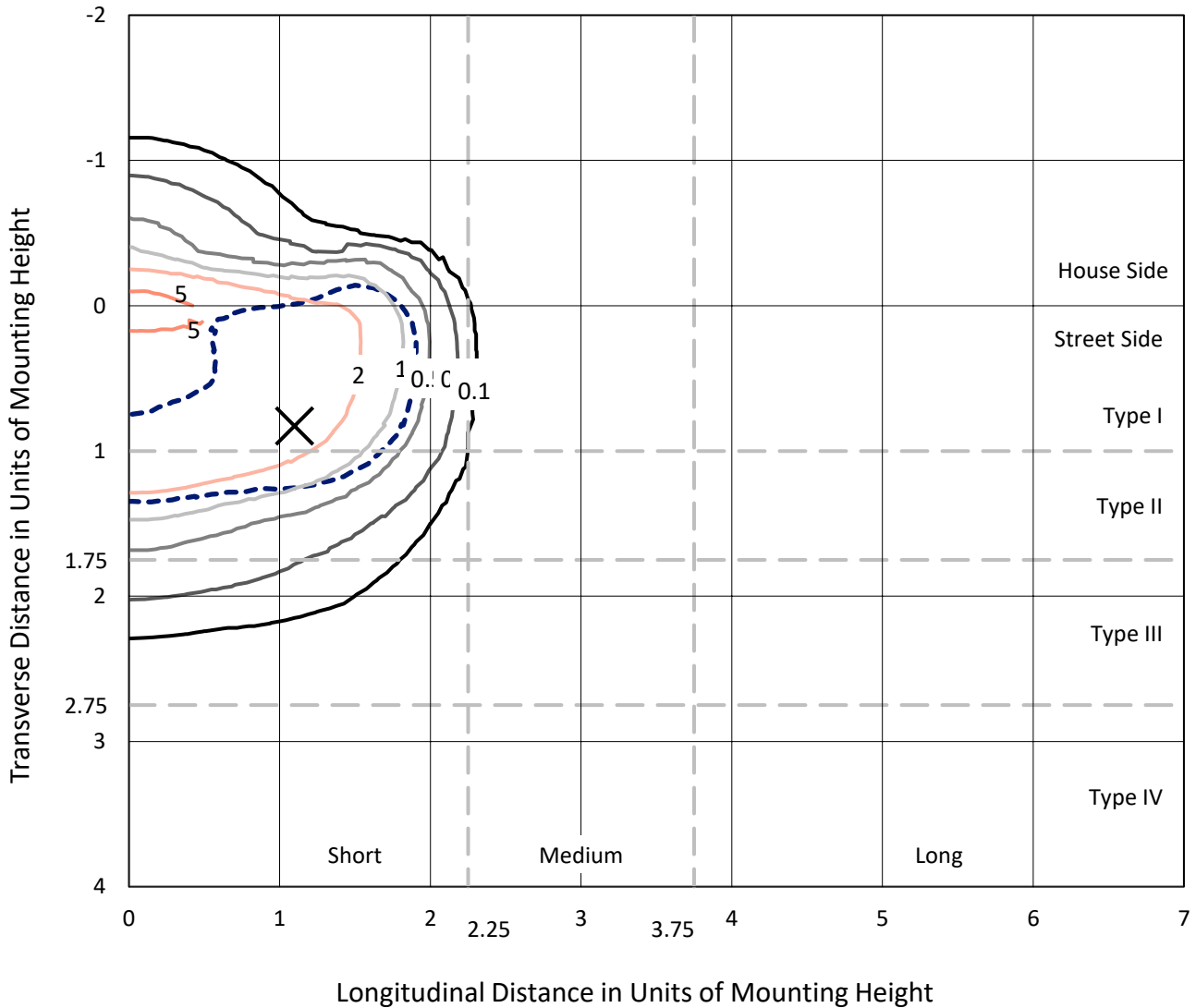
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

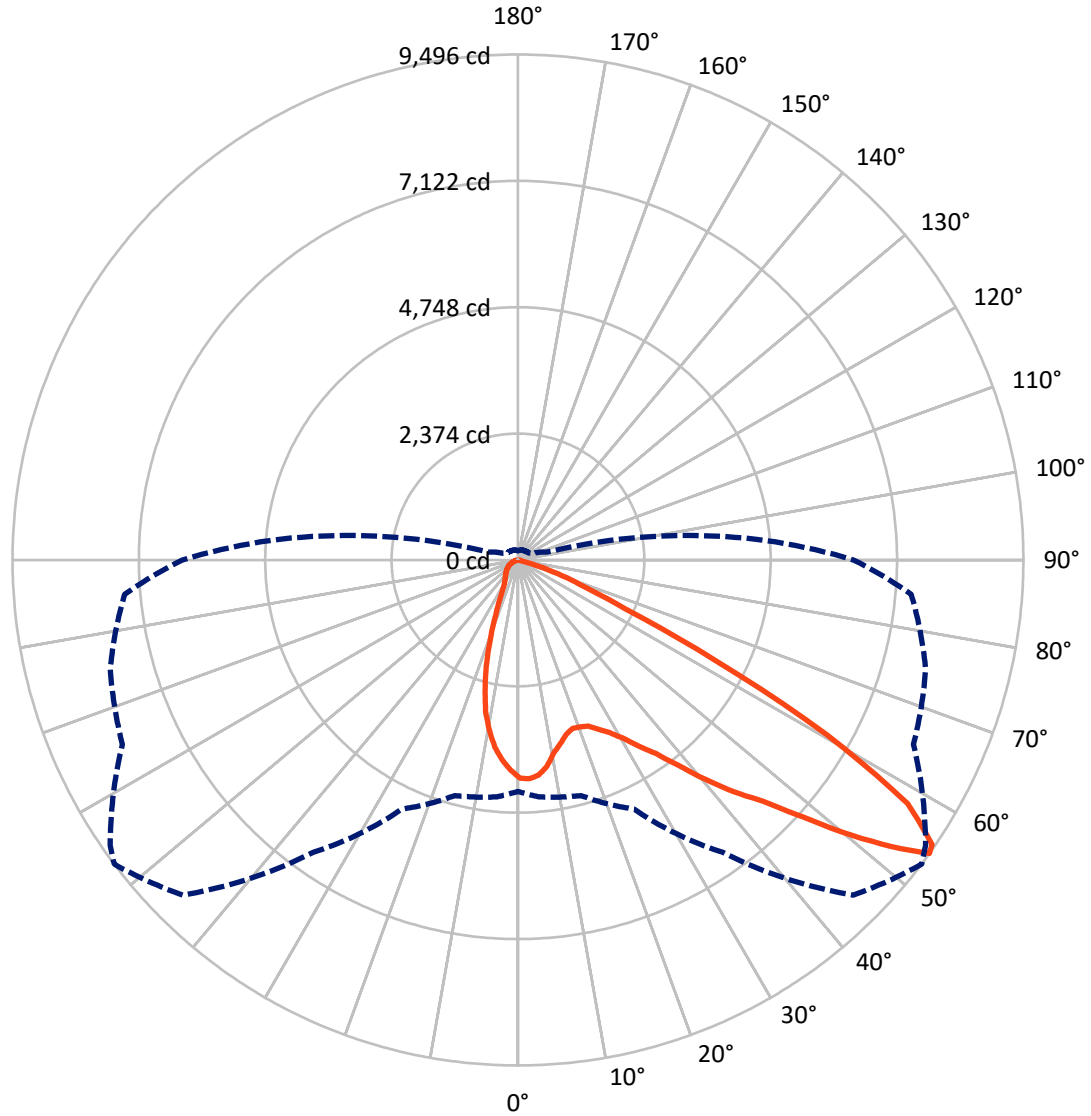
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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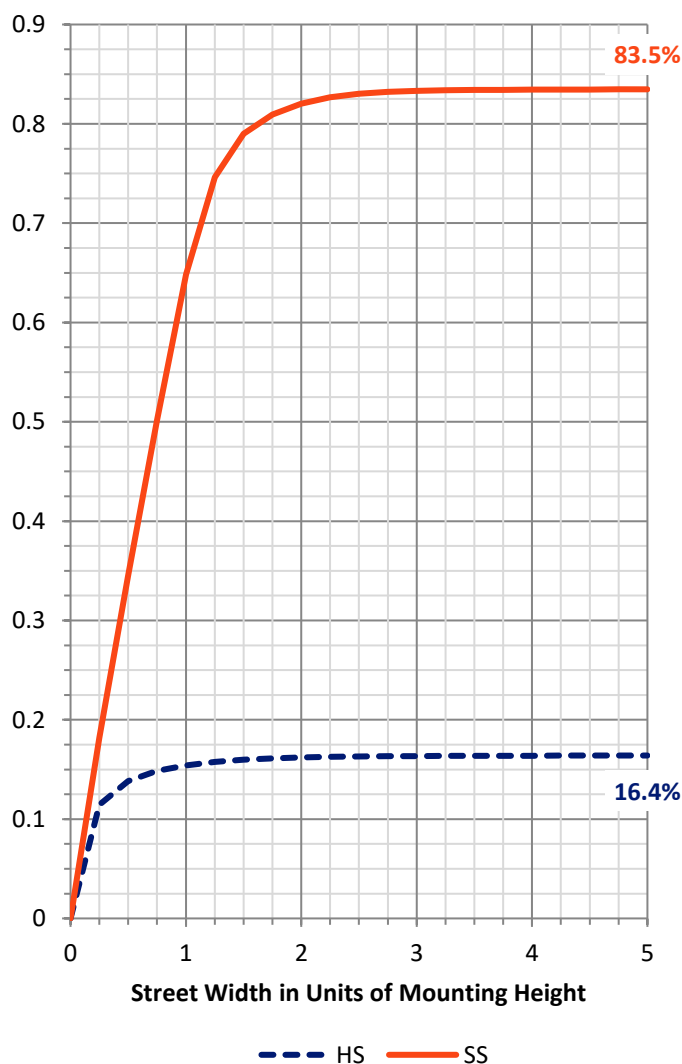
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1888.0	0.0	1888.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	9523.0	0.0	9523.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	11411.0	0.0	11411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.7	3.1
10°-20°	806.2	7.1
20°-30°	1145.8	10.0
30°-40°	1768.3	15.5
40°-50°	2772.5	24.3
50°-60°	3220.7	28.2
60°-70°	1217.0	10.7
70°-80°	115.7	1.0
80°-90°	13.0	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11411.0	100.0
0°-180°	11411.0	100.0

Coefficient of Utilization



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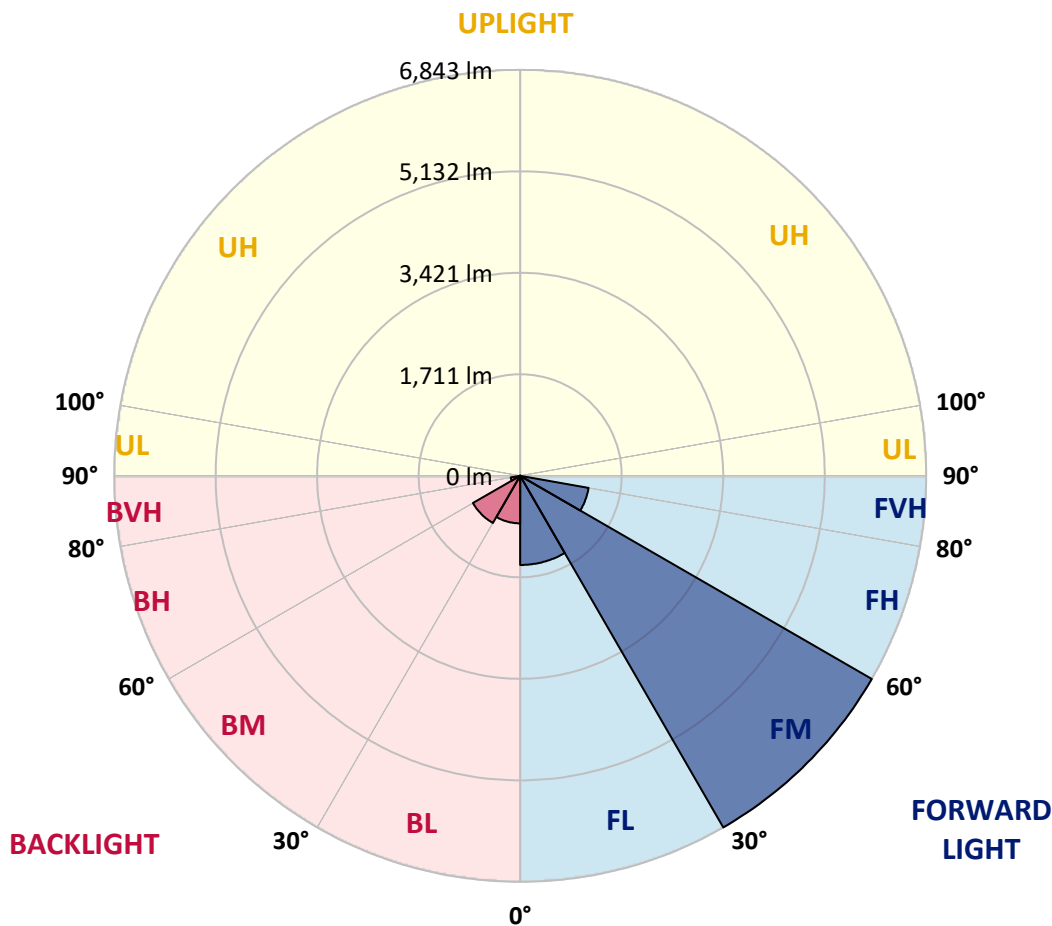
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1502.5	13.2			
FM (30°-60°)	6842.8	60.0			
FH (60°-80°)	1170.9	10.3			G1/1800
FVH (80°-90°)	6.7	0.1			G0/10
BL (0°-30°)	801.2	7.0	B2/1000		
BM (30°-60°)	918.7	8.1	B1/1000		
BH (60°-80°)	161.8	1.4	B1/500		G1/500
BVH (80°-90°)	6.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6
2.5°	4077.4	4041.2	4077.4	4081.6	4107.1	4130.5	4115.6	4149.7	4130.5	4109.3	4102.9
5°	3747.9	3796.8	3798.9	3875.4	3858.4	3998.7	4060.4	4043.4	4147.5	4141.2	4126.3
7.5°	3452.4	3433.2	3458.8	3548.0	3660.7	3822.3	3911.6	3909.4	4058.2	4164.5	4153.9
10°	3178.1	3176.0	3229.2	3299.3	3395.0	3565.1	3688.3	3750.0	3981.7	4143.3	4166.7
12.5°	2993.2	2984.7	3042.1	3099.5	3250.4	3382.2	3539.5	3569.3	3835.0	4068.9	4107.1
15°	2872.0	2891.2	2895.4	3006.0	3101.6	3275.9	3399.2	3460.9	3767.0	4009.4	4156.0
17.5°	2850.8	2876.3	2878.4	2969.8	3071.9	3218.5	3327.0	3409.9	3709.6	4039.1	4158.2
20°	2893.3	2878.4	2891.2	2948.6	3048.5	3188.8	3346.1	3373.7	3690.5	4054.0	4181.5
22.5°	3014.5	3010.2	2978.3	3025.1	3095.2	3241.9	3390.7	3433.2	3745.7	4130.5	4200.7
25°	3148.4	3171.8	3142.0	3135.6	3184.5	3329.1	3526.8	3582.1	3930.7	4268.7	4260.2
27.5°	3399.2	3375.8	3375.8	3346.1	3333.3	3403.5	3673.5	3764.9	4136.9	4447.3	4328.2
30°	3639.5	3665.0	3645.8	3656.5	3571.4	3565.1	3881.8	3994.5	4502.6	4719.4	4472.8
32.5°	4020.0	3986.0	4017.9	3990.2	3877.6	3762.8	4164.5	4281.5	4944.7	5031.9	4689.6
35°	4336.7	4321.9	4457.9	4453.7	4270.8	4158.2	4464.3	4638.6	5253.0	5406.0	4944.7
37.5°	4787.4	4759.8	4915.0	4989.4	4825.7	4657.7	4893.7	5095.7	5540.0	5705.8	5206.2
40°	5250.8	5321.0	5529.3	5652.6	5478.3	5255.1	5418.8	5480.4	5731.3	5901.4	5384.8
42.5°	5837.6	5939.6	6152.2	6258.5	6243.6	6001.3	5952.4	5950.3	5869.5	5846.1	5516.6
45°	6400.9	6362.7	6690.0	6921.8	7108.8	7038.7	6466.8	6403.1	6088.4	5929.0	5550.6
47.5°	6647.5	6634.8	6858.0	7270.4	7908.2	7995.3	7215.1	6968.5	6458.3	6277.6	5735.5
50°	6328.7	6394.6	6615.6	7072.7	8050.6	8716.0	8133.5	7801.9	6889.9	6702.8	6173.5
52.5°	5287.0	5331.6	5542.1	6122.4	7565.9	9141.2	9013.6	8822.3	7682.8	7372.4	6936.6
54°	4347.4	4466.4	4581.2	5163.7	6702.8	8905.2	9496.2	9349.5	8199.4	7929.4	7417.1
55°	3786.1	3856.3	3939.2	4519.6	6105.4	8505.5	9440.9	9453.7	8545.9	8103.7	7740.2
57.5°	2765.7	2814.6	2729.6	2986.8	4192.2	6906.9	8635.2	8979.6	9013.6	8365.2	7937.9
60°	2113.1	2134.4	2038.7	2079.1	2606.3	4740.6	6679.4	7094.0	8131.4	7310.8	6724.1
62.5°	1639.0	1643.3	1641.2	1711.3	1796.3	2789.1	4177.3	4545.1	5605.9	5191.3	4566.3
65°	1207.5	1188.4	1222.4	1434.9	1532.7	1753.8	2200.3	2468.1	3046.3	2572.3	1838.9
67.5°	782.3	788.7	822.7	1067.2	1313.8	1345.7	1354.2	1332.9	1335.0	735.5	461.3
70°	469.8	480.4	469.8	603.7	939.6	965.1	882.2	861.0	671.8	174.3	172.2
72.5°	278.5	263.6	236.0	259.4	391.2	467.7	420.9	418.8	263.6	102.0	102.0
75°	116.9	106.3	87.2	78.7	104.2	99.9	99.9	89.3	70.2	68.0	63.8
77.5°	23.4	23.4	17.0	19.1	25.5	29.8	36.1	36.1	42.5	42.5	40.4
80°	0.0	2.1	6.4	12.8	19.1	27.6	31.9	31.9	36.1	36.1	29.8
82.5°	0.0	2.1	6.4	12.8	17.0	25.5	31.9	31.9	36.1	38.3	31.9
85°	0.0	2.1	6.4	10.6	17.0	21.3	21.3	19.1	14.9	12.8	8.5
87.5°	0.0	0.0	2.1	4.3	2.1	4.3	4.3	4.3	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6	4098.6
2.5°	4117.8	4115.6	4064.6	3981.7	3962.6	3892.4	3883.9	3841.4	3864.8	3786.1	3777.6
5°	4083.8	4058.2	3996.6	3943.5	3788.3	3677.7	3590.6	3484.3	3422.6	3433.2	3392.9
7.5°	4132.7	4066.8	3958.3	3773.4	3584.2	3390.7	3286.6	3069.7	2991.1	2874.1	2857.1
10°	4081.6	4032.7	3864.8	3558.7	3297.2	3018.7	2774.2	2534.0	2351.2	2272.5	2255.5
12.5°	4077.4	3992.3	3711.7	3371.6	2993.2	2593.5	2238.5	1938.8	1758.1	1656.0	1632.7
15°	4011.5	3909.4	3539.5	3082.5	2559.5	2062.1	1675.2	1386.1	1247.9	1188.4	1205.4
17.5°	4017.9	3864.8	3367.3	2776.4	2132.2	1513.6	1143.7	994.9	958.8	973.6	973.6
20°	4011.5	3764.9	3159.0	2423.5	1632.7	1050.2	839.7	786.6	809.9	856.7	846.1
22.5°	3977.5	3718.1	2967.7	2051.4	1201.1	778.1	673.9	676.0	712.2	769.6	782.3
25°	4003.0	3613.9	2725.3	1675.2	875.9	620.7	584.6	599.5	637.8	680.3	688.8
27.5°	3983.8	3539.5	2472.4	1301.0	639.9	533.6	531.5	548.5	565.5	597.4	597.4
30°	4005.1	3471.5	2223.6	967.3	527.2	488.9	480.4	493.2	510.2	516.6	514.5
32.5°	4083.8	3420.5	1936.6	722.8	465.6	446.4	446.4	446.4	444.3	452.8	454.9
35°	4256.0	3429.0	1683.7	559.1	425.2	410.3	403.9	395.4	391.2	395.4	397.5
37.5°	4443.0	3424.7	1422.2	476.2	395.4	382.7	367.8	355.0	352.9	357.1	350.8
40°	4525.9	3465.1	1179.8	427.3	367.8	352.9	329.5	318.9	321.0	325.3	321.0
42.5°	4638.6	3477.9	1022.5	389.0	342.3	318.9	304.0	291.2	289.1	295.5	293.4
45°	4636.5	3405.6	856.7	367.8	318.9	293.4	274.2	263.6	263.6	267.9	270.0
47.5°	4772.5	3395.0	735.5	348.6	301.9	276.4	253.0	244.5	242.3	242.3	238.1
50°	5089.3	3543.8	642.0	327.4	280.6	257.2	238.1	227.5	219.0	214.7	212.6
52.5°	5707.9	4007.2	569.7	301.9	257.2	238.1	221.1	212.6	202.0	191.3	189.2
54°	6307.4	4485.5	565.5	280.6	238.1	225.3	210.5	206.2	193.5	178.6	174.3
55°	6577.4	4764.0	580.4	263.6	225.3	216.8	204.1	199.8	187.1	170.1	167.9
57.5°	6800.6	4872.4	571.9	219.0	204.1	202.0	191.3	184.9	170.1	146.7	142.4
60°	5474.1	3684.1	410.3	193.5	187.1	182.8	174.3	170.1	150.9	125.4	123.3
62.5°	3458.8	2119.5	261.5	170.1	163.7	157.3	146.7	142.4	125.4	99.9	93.5
65°	1473.2	878.0	176.4	150.9	140.3	129.7	121.2	114.8	99.9	74.4	72.3
67.5°	382.7	312.5	146.7	131.8	116.9	102.0	95.7	85.0	68.0	51.0	48.9
70°	172.2	157.3	123.3	110.5	93.5	78.7	70.2	59.5	44.6	34.0	31.9
72.5°	102.0	99.9	93.5	82.9	70.2	59.5	51.0	40.4	29.8	19.1	19.1
75°	63.8	61.6	63.8	57.4	48.9	44.6	38.3	27.6	17.0	8.5	8.5
77.5°	38.3	38.3	38.3	36.1	34.0	34.0	27.6	17.0	8.5	2.1	2.1
80°	29.8	29.8	31.9	29.8	29.8	29.8	23.4	12.8	4.3	0.0	0.0
82.5°	29.8	31.9	36.1	34.0	29.8	25.5	21.3	12.8	4.3	0.0	0.0
85°	8.5	6.4	10.6	14.9	21.3	19.1	14.9	10.6	4.3	0.0	0.0
87.5°	4.3	4.3	4.3	4.3	2.1	2.1	2.1	2.1	2.1	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)